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Total No. of Pages : 1

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M.Pharm(Pharmaceutical Chemistry) (2017 & Onwards) (Sem.-1)

ADVANCED MEDICINAL CHEMISTRY

Subject Code : MPC-103T

M.Code : 74665

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of SIX questions.
2. Each question carries FIFTEEN marks.

- Q1. i) What are the various stages in drug discovery? Elaborate. (9)
ii) What is the difference between an agonist and antagonist? Give examples. (6)
- Q2. i) What are the various causes of drug resistance? Discuss the various approaches towards combating drug resistance to antibiotics. (9)
ii) Discuss briefly any two strategies of analog design. (6)
- Q3. i) Discuss the chemistry of angiotensin II antagonists employed in therapy. (9)
ii) What are atypical antipsychotics? Discuss the chemistry of this class of drugs. (6)
- Q4. Write short notes on :
i) Anticholinesterases in therapy (5)
ii) Prodrug approach (5)
iii) Prostaglandins and their importance (5)
- Q5. i) Discuss the various types of enzyme inhibitors in medicine. Give one example each (with mechanism) of covalently- and non-covalently binding enzyme inhibitors. (8)
ii) Give a brief account of adrenergic agents in therapy. (7)
- Q6. i) Giving specific examples, explain the importance of chirality in drugs. (7)
ii) What are the advantages and therapeutic importance of selective COX-2 inhibitors?
Give chemical structures of important therapeutic drugs from this category. (8)

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

